

WHAT IS CLAIMED IS:

1. A device for depositing a film onto a surface of a substrate, comprising:
2 a film material source for dispersing film material incident in the general direction of the
3 substrate surface; and
4 at least one collimator between the film material source and the substrate, the at least one
5 collimator having passages therein, wherein the passages are angled obliquely relative to the
6 substrate surface such that incident film material traveling toward the substrate in a trajectory which
is not substantially parallel to the oblique angle of the passages is blocked.

2. The device in accordance with claim 1 wherein the substrate has a circular profile;
and
wherein the passages of the collimator are angled in a circumferential direction of the
circular profiled substrate.

3. The device in accordance with claim 1 wherein the substrate has a circular profile;
and
wherein the passages of the collimator are angled in a radial direction of the circular profiled
substrate.

4. The device in accordance with claim 1, wherein a ratio of the height of the passages
to the depth of the passages is substantially uniform throughout the collimator.

5. The device in accordance with claim 2, wherein the angle of the passages with
respect to the substrate surface of the sheet of the collimator can be varied from about 0 to about
90°.

1 6. The device in accordance with claim 1 wherein the film material source is a target
2 constructed of the film material and particles are ejected from the target material by a sputtering
3 technique.

4 7. The device in accordance with claim 1 wherein the film material source is an
5 evaporation medium constructed of the film material and particles are dispersed from the
6 evaporation medium in an evaporation technique.

1 8. The device in accordance with claim 1, wherein the collimator can be electrically
2 floating, on earth or biasing.

1 9. The device in accordance with claim 1, wherein the collimator comprises a material
2 selected from the group consisting of a conductor material, an insulator material, or a
3 semiconductor material.

1 10. The device in accordance with claim 1 wherein the collimator comprises:
2 a support structure;
3 a plurality of sheets held in relative relation by the support structure and forming passages
4 there between.